

AIDS IN KENTUCKY

June 30, 1999

Kentucky HIV/AIDS Quarterly Report

Data Sources and Limitations

The HIV/AIDS Quarterly Report contains cases diagnosed and reported to the Kentucky Department for Public Health, HIV/AIDS Program through June 30, 1999.

According to state regulation 902 KAR 2:020, Section 7, physicians, hospitals, laboratories and counseling and testing sites are required to report HIV and AIDS cases to the Kentucky Department for Public Health within five business days of diagnosis. AIDS cases are reported by name, while HIV cases are reported by initials. HIV tests can be either anonymous or confidential; however, only those confidential HIV positive cases are reported to the Kentucky Department for Public Health.

HIV and AIDS cases who reside in the Kentucky counties of Bullitt, Henry, Jefferson, Oldham, Shelby, Spencer and Trimble are reported to an HIV/AIDS surveillance technician at the Jefferson County Health Department. All other HIV and AIDS cases are reported to an HIV/AIDS surveillance technician at the Kentucky Department for Public Health. Case information from both sites is combined at the Kentucky Department for Public Health to produce this report. The epidemiologist who compiles the HIV/AIDS quarterly report does not have access to personal identifying information.

When HIV and AIDS cases are reported, they are entered into separate databases. For example, the AIDS database contains all AIDS cases reported both living and deceased since 1982. The HIV data set, however, contains only those cases living with HIV who have not developed AIDS. The HIV database has been maintained since 1990.

This HIV database is limited because it only contains those cases currently living with HIV and can not be used to derive a proper rate. Also, without HIV name reporting we can never be completely sure if duplicates exist in the database.

Another limitation to the HIV data set is the high number for which the mode of exposure or risk factor is undetermined. As of June 30, 1999, 33% of HIV cases are listed with an undetermined mode of exposure.

Cumulative Kentucky HIV/AIDS Cases as of 6/30/99	
<u>Type of Case</u>	<u>Number of Cases</u>
AIDS cases both living and deceased	2970
Cases living with AIDS	1385
Cases living with HIV who have not developed AIDS	2514

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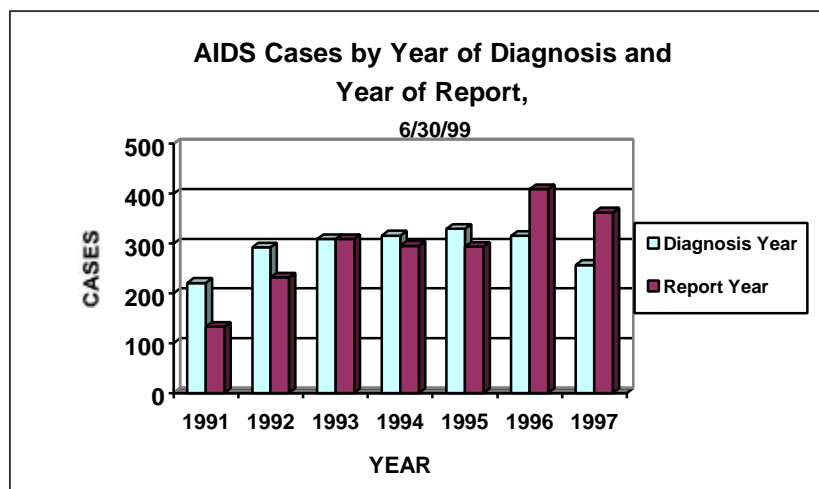
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AIDS CASES BY YEAR OF DIAGNOSIS												
Characteristics	1982-86	1987-91	1992	1993	1994	1995	1996	1997	1998	1999	Total	% ⁽¹⁾
GENDER												
Male	91	705	261	281	266	291	266	216	179	45	2601	88%
Female	6	74	31	28	50	38	49	41	38	14	369	12%
TOTAL	97	779	292	309	316	329	315	257	217	59	2970	100%
AGE AT DIAGNOSIS												
<13	0	12	0	1	1	3	5	0	1	1	24	1%
13-19	2	10	1	1	2	4	1	1	0	1	23	1%
20-29	25	209	56	56	65	50	43	36	28	8	576	19%
30-39	45	351	145	150	148	166	159	124	104	27	1419	48%
40-49	15	123	70	82	79	79	82	78	62	17	687	23%
>49	10	74	20	19	21	27	25	18	22	5	241	8%
TOTAL	97	779	292	309	316	329	315	257	217	59	2970	100%
RACE												
White	82	605	219	230	208	229	204	153	132	33	2095	71%
African-American	14	165	69	78	100	94	108	91	76	26	821	28%
Other	1	9	4	1	8	6	3	13	9	0	54	2%
TOTAL	97	779	292	309	316	329	315	257	217	59	2970	100%
RISK												
MSM ⁽²⁾	65	520	190	191	175	191	161	135	103	28	1759	59%
IDU ⁽³⁾	8	73	38	38	52	51	50	41	33	7	391	13%
MSM AND IDU	9	54	19	21	16	23	12	15	12	2	183	6%
Hemophiliac	6	37	13	7	6	7	2	1	0	0	79	3%
Heterosexual ⁽⁴⁾	3	45	25	40	51	35	61	29	32	11	332	11%
Transfusion	3	25	2	3	5	2	2	0	0	1	43	1%
Perinatal	0	7	0	1	1	3	5	0	1	1	19	1%
Undetermined ⁽⁵⁾	3	18	5	8	10	17	22	36	36	9	164	6%
TOTAL	97	779	292	309	316	329	315	257	217	59	2970	100%

(1) Percentages may not total 100 due to rounding. (2) MSM = Men having Sex with Men (3) IDU = Injecting Drug User

(4) "Heterosexual" Includes persons who have had heterosexual contact with a person with HIV or at risk for HIV.

(5) "Undetermined" refers to persons whose mode of exposure to HIV is unknown. This includes persons who are under investigation, dead, lost to follow-up, refused interview, and persons whose mode of exposure remains undetermined after investigation.



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CUMULATIVE AIDS CASES BY RISK, RACE, AND GENDER, 6/30/99							
RISK		White		African Am.		Other	
		No.	% ⁽¹⁾	No.	% ⁽¹⁾	No.	% ⁽¹⁾
M A L E	MSM	1434	75%	307	47%	18	41%
	IDU	122	6%	150	23%	12	27%
	MSM AND IDU	116	6%	63	10%	4	9%
	Hemophiliac	69	4%	9	1%	0	0%
	Heterosexual	86	5%	57	9%	5	11%
	Transfusion/Transplant	24	1%	4	1%	0	0%
	Perinatal	3	0%	4	1%	0	0%
	Undetermined	49	3%	60	9%	5	11%
TOTAL		1903	100%	654	100%	44	100%
F E M A L E	IDU	47	24%	55	33%	5	50%
	Hemophiliac	1	1%	0	0%	0	0%
	Heterosexual	108	56%	71	43%	5	50%
	Transfusion/Transplant	11	6%	4	2%	0	0%
	Perinatal	7	4%	5	3%	0	0%
	Undetermined	18	9%	32	19%	0	0%
TOTAL		192	100%	167	100%	10	100%

(1) Percentages may not total 100% due to rounding.

KENTUCKY AIDS CASES, LIVING AND DECEASED, AS OF 6/30/99				
Diagnosis Year	Total Cases	Living	Deceased	Case Fatality Rate ⁽¹⁾
1982	3	0	3	100%
1983	6	0	6	100%
1984	15	1	14	93%
1985	32	1	31	97%
1986	41	1	40	98%
1987	72	6	66	92%
1988	126	5	121	96%
1989	169	20	149	88%
1990	191	25	166	87%
1991	221	42	179	81%
1992	292	74	218	75%
1993	309	110	199	64%
1994	316	166	150	47%
1995	329	225	104	32%
1996	315	248	67	21%
1997	257	213	44	17%
1998	217	193	24	11%
1999	59	55	4	7%
TOTAL	2970	1385	1585	53%

(1) The case fatality rate is the percentage of AIDS cases diagnosed in a year which are deceased.

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CUMULATIVE AIDS STATISTICS FOR KENTUCKY AND THE UNITED STATES

KENTUCKY AIDS CASES REPORTED AS OF 6/30/99		
Characteristics	Total	% ⁽¹⁾
GENDER		
Male	2,601	88%
Female	369	12%
Unknown	0	0%
TOTAL	2,970	100%
AGE AT DIAGNOSIS		
<13	24	1%
13-19	23	1%
20-29	576	19%
30-39	1,419	48%
40-49	687	23%
>49	241	8%
Unknown	0	0%
TOTAL	2,970	100%
RACE		
White	2,095	71%
African-American	821	28%
Other	54	2%
Undetermined	0	0%
TOTAL	2,970	100%
RISK		
MSM ⁽²⁾	1,759	59%
IDU ⁽³⁾	391	13%
MSM AND IDU	183	6%
Hemophiliac	79	3%
Heterosexual	332	11%
Transfusion	43	1%
Perinatal	19	1%
Undetermined	164	6%
TOTAL	2,970	100%

(1) Percentages may not always total 100% due to rounding.

(2) MSM = Men Having Sex with Men

(3) IDU = Injecting Drug User

U.S. AIDS CASES ⁽⁴⁾ REPORTED AS OF 12/31/98		
Characteristics	Total	% ⁽¹⁾
GENDER		
Male	574,783	84%
Female	113,414	16%
Unknown	3	0%
TOTAL	688,200	100%
AGE AT DIAGNOSIS		
<13	8,461	1%
13-19	3,423	0%
20-29	117,717	17%
30-39	310,196	45%
40-49	176,239	26%
>49	72,161	10%
Unknown	3	0%
TOTAL	688,200	100%
RACE		
White	304,094	44%
African-American	251,408	37%
Other	131,755	19%
Undetermined	943	0%
TOTAL	688,200	100%
RISK		
MSM ⁽²⁾	326,051	47%
IDU ⁽³⁾	173,693	25%
MSM AND IDU	43,640	6%
Hemophiliac	5,145	1%
Heterosexual	66,490	10%
Transfusion	8,760	1%
Perinatal	7,687	1%
Undetermined	56,734	8%
TOTAL	688,200	100%

(4) U.S. Cases from Centers for Disease Control and Prevention. *HIV/AIDS Surveillance Report*, 1998;10 (no. 2).

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AIDS CASES AND RATES BY YEAR OF DIAGNOSIS AND AREA DEVELOPMENT DISTRICT OF RESIDENCE AT TIME OF DIAGNOSIS												
DISTRICT	CASES & RATES ⁽¹⁾	<1992	1992	1993	1994	1995	1996	1997	1998 ⁽²⁾	1999	TOTAL CASES ⁽³⁾	% ⁽⁴⁾
1. Purchase	Cases	32	10	16	10	8	10	5	10	0	101	3%
	Rate per 100,000		5.5	8.6	5.4	4.3	5.3	2.6	5.3			
2. Pennyriple	Cases	48	13	12	9	16	14	9	10	3	134	5%
	Rate per 100,000		6.3	5.8	4.4	7.7	6.8	4.2	4.7			
3. Green River	Cases	26	14	10	6	12	9	7	9	3	96	3%
	Rate per 100,000		7.0	4.9	2.9	5.9	4.4	3.4	4.4			
4. Barren River	Cases	38	14	8	8	10	12	6	6	1	103	3%
	Rate per 100,000		6.2	3.5	3.4	4.2	5.0	2.5	2.5			
5. Lincoln Trail	Cases	20	6	8	12	8	9	13	7	1	84	3%
	Rate per 100,000		2.8	3.6	5.3	3.5	3.9	5.5	3.0			
6. North Central	Cases	377	127	142	151	152	154	127	102	33	1365	46%
	Rate per 100,000		15.7	17.4	18.4	18.4	18.5	15.3	12.3			
7. Northern Kentucky	Cases	95	32	45	26	21	20	17	10	2	268	9%
	Rate per 100,000		9.3	12.8	7.3	5.8	5.5	4.6	2.7			
8. Buffalo Trace	Cases	6	1	0	3	1	2	4	5	0	22	1%
	Rate per 100,000		1.9	0.0	5.6	1.8	3.7	7.4	9.2			
9. Gateway	Cases	4	4	5	5	2	4	2	1	0	27	1%
	Rate per 100,000		5.8	7.2	7.1	2.8	5.6	2.8	1.4			
10. FIVCO	Cases	18	9	5	5	7	6	3	7	1	61	2%
	Rate per 100,000		6.7	3.7	3.7	5.2	4.4	2.2	5.2			
11. Big Sandy	Cases	13	3	1	2	5	2	5	2	1	34	1%
	Rate per 100,000		1.8	0.6	1.2	3.0	1.2	3.0	1.2			
12. Kentucky River	Cases	8	3	1	4	4	1	2	3	1	27	1%
	Rate per 100,000		2.4	0.8	3.2	3.2	0.8	1.6	2.4			
13. Cumberland Valley	Cases	15	5	4	5	10	9	5	7	4	64	2%
	Rate per 100,000		2.2	1.7	2.2	4.3	3.9	2.1	3.0			
14. Lake Cumberland	Cases	9	2	5	5	9	5	2	5	0	42	1%
	Rate per 100,000		1.1	2.8	2.7	4.8	2.7	1.1	2.7			
15. Bluegrass	Cases	167	49	47	65	64	58	50	33	9	542	18%
	Rate per 100,000		8.0	7.6	10.4	10.1	9.1	7.8	5.1			
TOTAL CASES		876	292	309	316	329	315	257	217	59	2970	100%

(1) Rates are only listed for years of diagnosis 1992 - 1998. The rate for 1999 is not given due to incomplete data.

(2) Population statistics for 1997 were used to calculate the rate for 1998.

(3) Total AIDS Cases both Living and Deceased.

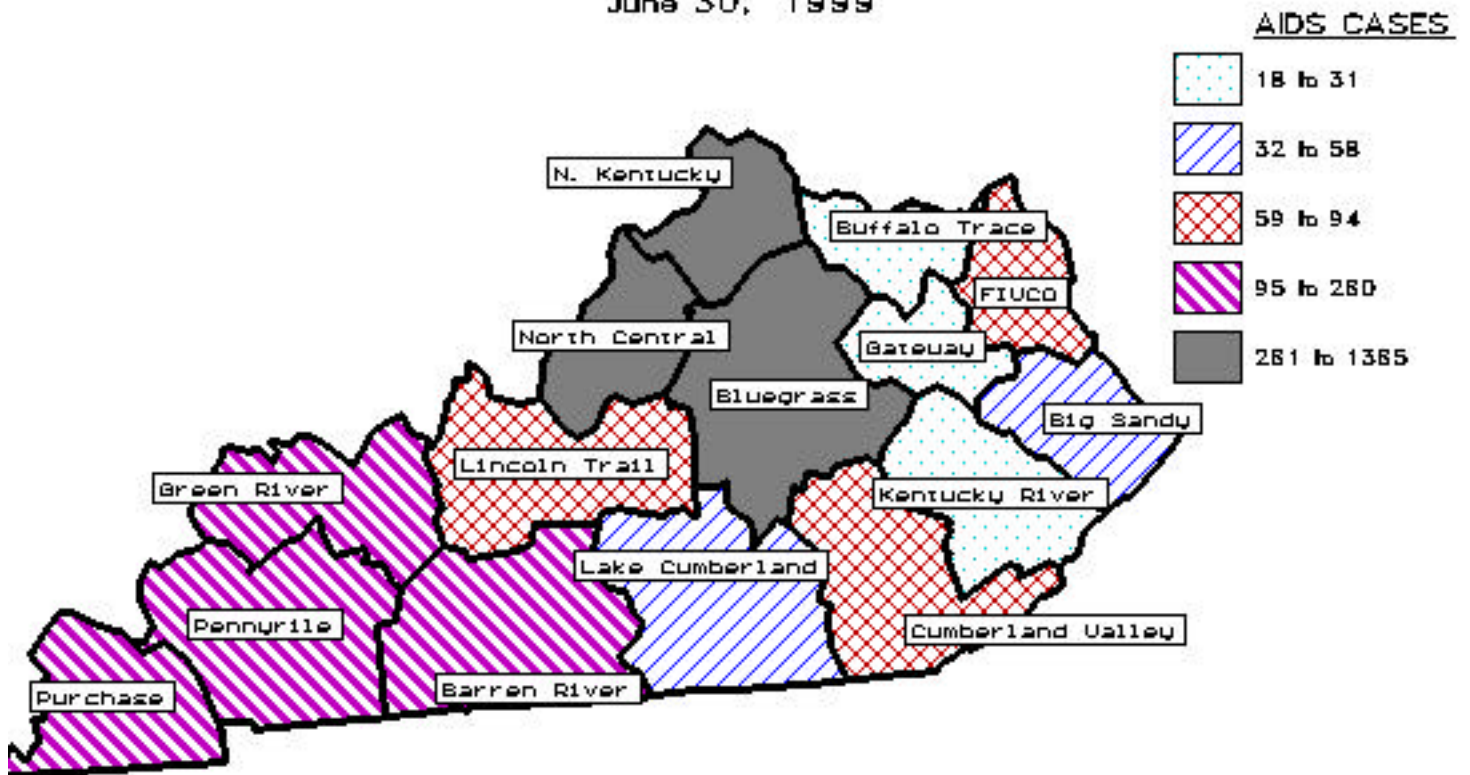
(4) Percentages may not always total 100% due to rounding.

Counties In Each Area Development District
1. Ballard, Calloway, Carlisle, Fulton, Graves, Hickman, McCracken, Marshall
2. Caldwell, Christian, Crittenden, Hopkins, Livingston, Lyon, Muhlenberg, Todd, Trigg
3. Daviess, Hancock, Henderson, McLean, Ohio, Union, Webster
4. Allen, Barren, Butler, Edmonson, Hart, Logan, Metcalfe, Monroe, Simpson, Warren
5. Breckinridge, Grayson, Hardin, Larue, Marion, Meade, Nelson, Washington
6. Bullitt, Henry, Jefferson, Oldham, Shelby, Spencer, Trimble
7. Boone, Campbell, Carroll, Gallatin, Grant, Kenton, Owen, Pendleton
8. Bracken, Fleming, Lewis, Mason, Robertson
9. Bath, Menifee, Montgomery, Morgan, Rowan
10. Boyd, Carter, Elliott, Greenup, Lawrence
11. Floyd, Johnson, Magoffin, Martin, Pike
12. Breathitt, Knott, Lee, Leslie, Letcher, Owsley, Perry, Wolfe
13. Bell, Clay, Harlan, Jackson, Knox, Laurel, Rockcastle, Whitley
14. Adair, Casey, Clinton, Cumberland, Green, McCreary, Pulaski, Russell, Taylor, Wayne
15. Anderson, Bourbon, Boyle, Clark, Estill, Fayette, Franklin, Garrard, Harrison
Jessamine, Lincoln, Madison, Mercer, Nicholas, Powell, Scott, Woodford

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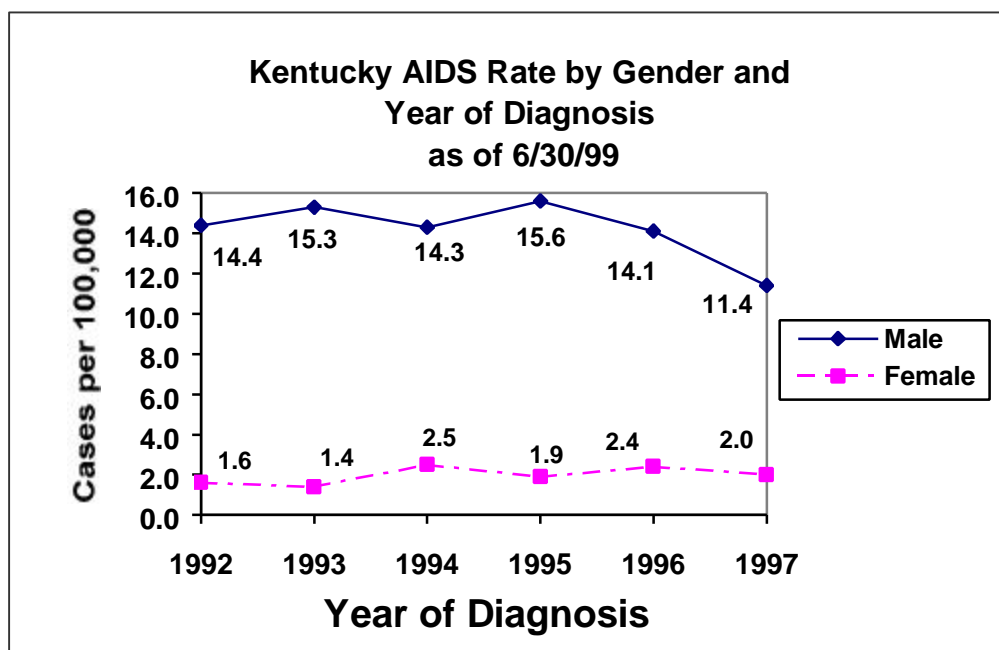
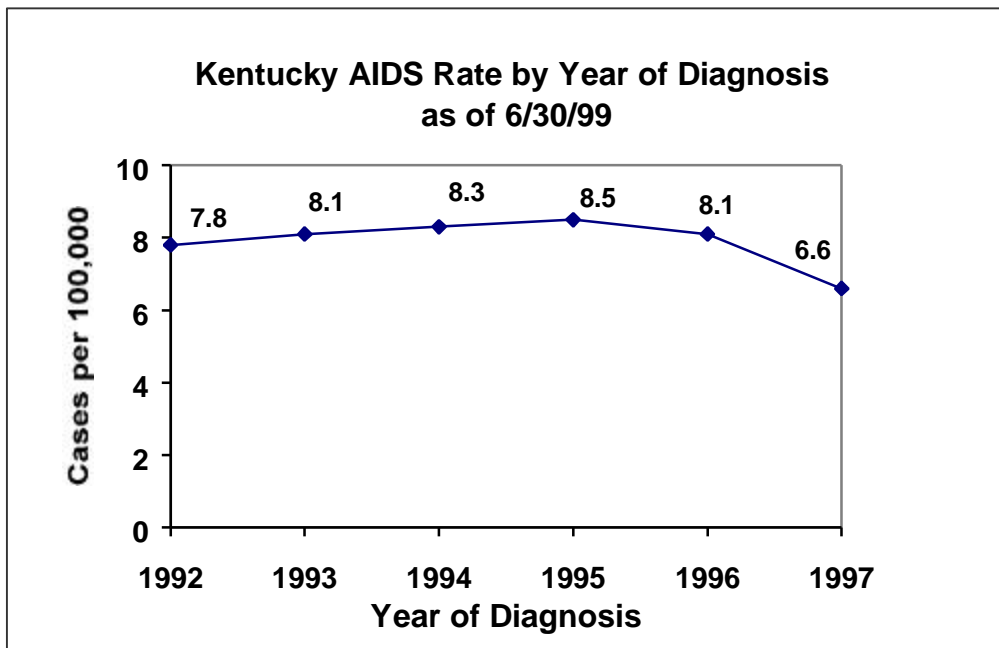
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Cumulative AIDS Cases by Area Development District
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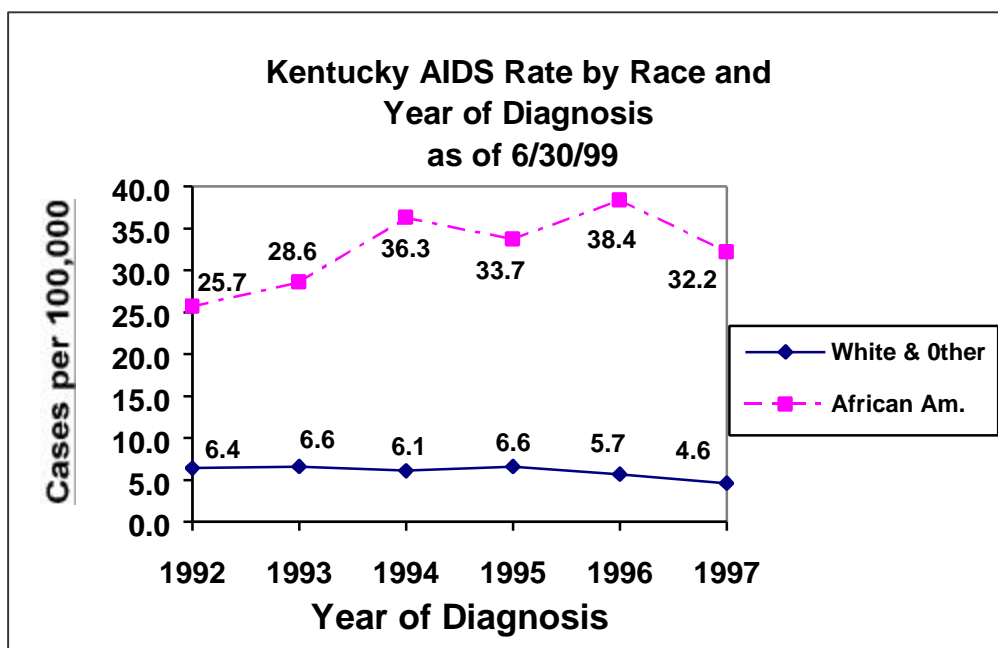
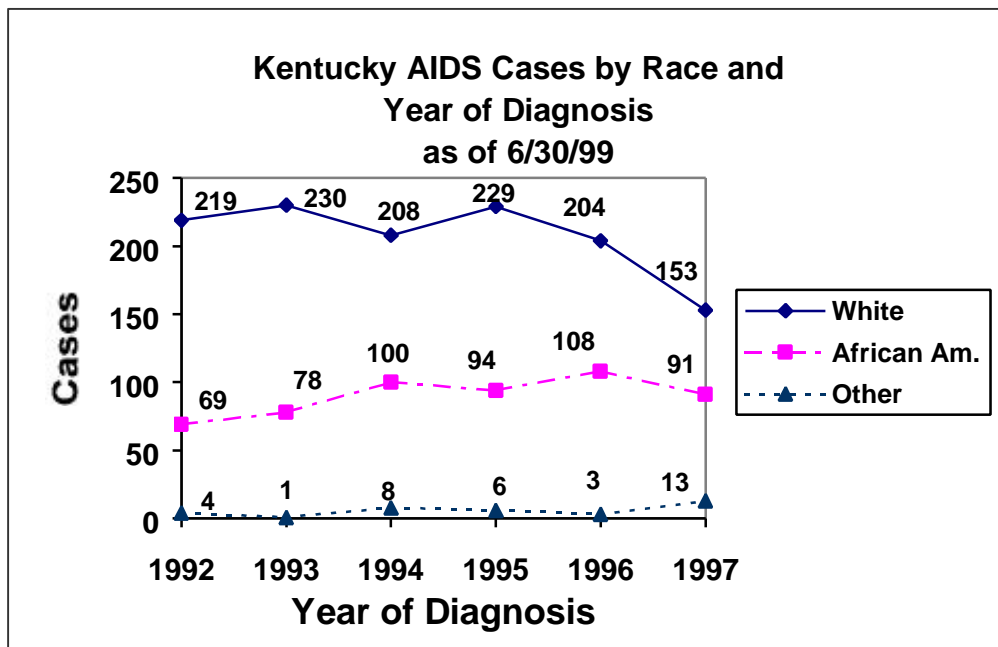
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